

10/627,423

STR - STRUCTURE Search
11.4.04

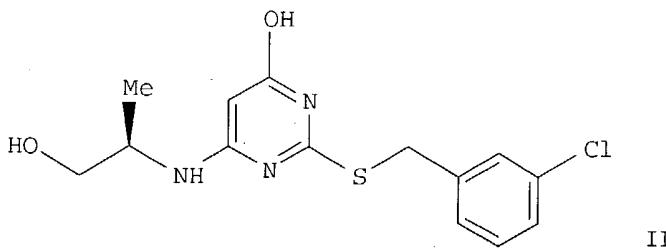
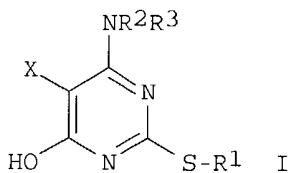
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L4 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2004:182850 CAPLUS
 DOCUMENT NUMBER: 140:217659
 TITLE: Preparation of 2-organothio-6-amino-4-pyrimidinols as chemokine receptor activity modulators
 INVENTOR(S): Ebden, Mark Richard; Meghani, Premji; Cook, Antony Ronald; Steele, John; Cheema, Lal Lashkar Singh
 PATENT ASSIGNEE(S): AstraZeneca AB, Swed.; AstraZeneca UK Limited
 SOURCE: PCT Int. Appl., 75 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004018435	A1	20040304	WO 2003-GB3632	20030820
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: GB 2002-19819 A 20020824
 GB 2002-23287 A 20021008

OTHER SOURCE(S): MARPAT 140:217659
 GI



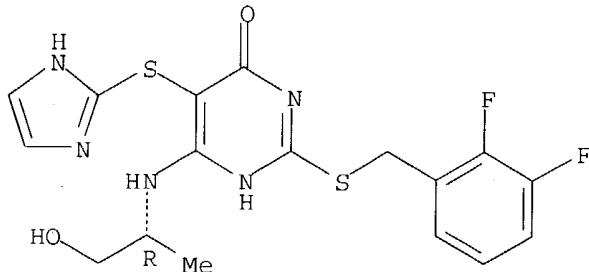
AB 2-Organothio-6-amino-4-pyrimidinols (shown as I; variables defined below; e.g. II), pharmaceutically acceptable salts, solvates and in vivo hydrolyzable esters thereof, have activity as pharmaceuticals, in particular as modulators of chemokine receptor (especially CXCR2) activity, and

may be useful in the treatment (therapeutic or prophylactic) of conditions/diseases in human and nonhuman animals which are exacerbated or caused by excessive or unregulated production of chemokines. For I: R1 is a C3-7carbocyclyl, C1-8alkyl, C2-6alkenyl and C2-6alkynyl; R2 is a C3-7carbocyclyl, C1-8alkyl, C2-6alkenyl or C2-6alkynyl; R3 is H or R2; R4 is H, C1-6alkyl or phenyl; X is H, halo, cyano, nitro, hydroxy, C1-6alkoxy, -NR5R6, -COOR7, -CONR5R6, -NR8COR9, thio, thiocyanato, thioC1-6alkyl, -SO2R10, -SO2NR5R6, -NR8SO2R10, C3-7carbocyclyl, C1-8alkyl, C2-6alkenyl or C2-6alkynyl, Ph, heteroaryl, thiophenyl, thioheteroaryl, aminoheteroaryl, and thioC1-6-alkylheteroaryl; addnl. details are given in the claims. Methods of preparation are claimed and 34 example preps. are included. For example, 1.7 g II was prepared by condensation of 3-chlorobenzyl bromide with 2.0 g 6-[((1R)-2-hydroxy-1-methylethyl)amino]-2-mercaptop-4-pyrimidinol, which was prepared (7.2 g) by condensation of 39 mL (R)-alaninol with 16.1 g 6-amino-2-mercaptop-4-pyrimidinol. II was reacted with N-chlorosuccinimide, KSCN/Br2, etc. to give 5-substituted derivs. In some other cases, 6-[((1R)-2-hydroxy-1-methylethyl)amino]-2-mercaptop-4-pyrimidinol was condensed with 2,3-difluorobenzyl bromide to give 2-[[[(2,3-difluorophenyl)methyl]thio]-6-[((1R)-2-hydroxy-1-methylethyl)amino]-4-pyrimidinol, which was reacted with 5-(4-pyridinyl)-1,3,4-oxadiazole-2-thiol, etc. to give 2-[[[(2,3-Difluorophenyl)methyl]thio]-6-[((1R)-2-hydroxy-1-methylethyl)amino]-5-[[5-(4-pyridinyl)-1,3,4-oxadiazol-2-yl]thio]-4-pyrimidinol, etc. In another example, 2-[[[(2,3-difluorobenzyl)thio]-6-[((1R)-2-hydroxy-1-methylethyl)amino]-5-(1,3-oxazol-5-yl)pyrimidin-4-ol was prepared by cyclization of 4-(allyloxy)-6-[[[(1R)-2-[(tert-butyldimethylsilyl)oxy]-1-methylethyl]amino]-2-[[[(2,3-difluorobenzyl)thio]pyrimidine-5-carboxaldehyde with p-toluenesulfonylmethyl isocyanide. The 34 examples compds. have pIC50 >5.5 for binding to hrCXCR2, e.g. 6.10 for II. Compds. I according to the examples were tested and are antagonists of the CXCR2 receptor in human neutrophils (no data).

IT 666752-73-4P, 2-[[[(2,3-Difluorophenyl)methyl]thio]-6-[((1R)-2-hydroxy-1-methylethyl)amino]-5-[(1H-imidazol-2-yl)thio]-4-pyrimidinol
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (drug candidate; preparation of 2-organothio-6-amino-4-pyrimidinols as chemokine receptor activity modulators)

RN 666752-73-4 CAPLUS
 CN 4(1H)-Pyrimidinone, 2-[[[(2,3-difluorophenyl)methyl]thio]-6-[[[(1R)-2-hydroxy-1-methylethyl)amino]-5-(1H-imidazol-2-ylthio)] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

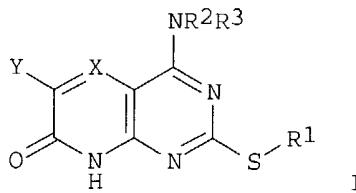


REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ACCESSION NUMBER: 2003:242333 CAPLUS
 DOCUMENT NUMBER: 138:271701
 TITLE: Preparation of pteridinones as modulators of chemokine receptor activity
 INVENTOR(S): Bonnert, Roger Victor; Cage, Peter Alan; Hunt, Simon Frazer; Walters, Iain Alastair Stewart; Austin, Rupert Philip
 PATENT ASSIGNEE(S): AstraZeneca AB, Swed.; AstraZeneca UK Limited
 SOURCE: PCT Int. Appl., 58 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003024966	A1	20030327	WO 2002-GB3684	20020809
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1419158	A1	20040519	EP 2002-749129	20020809
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
PRIORITY APPLN. INFO.:			SE 2001-2716	A 20010814
			WO 2002-GB3684	W 20020809

OTHER SOURCE(S): MARPAT 138:271701
 GI



AB The title compds. [I; R1 = cycloalkyl, alkyl, alkenyl, etc.; R2, R3 = H, cycloalkyl, alkyl, etc.; Y = OR4, SR4, heteroaryl, etc.; R4 = H, alkyl, aryl, etc.; X = N], useful for treating a chemokine mediated disease wherein the chemokine binds to one or more chemokine receptors, were prepared E.g., a 7-step synthesis of (R)-I [R1 = (2,3-difluorophenyl)methyl; R2 = (1R)-2-hydroxy-1-methylethyl; R3 = H; Y = (2-hydroxyethyl)amino; X = N], starting from 4,6-diamino-2-pyrimidinethiol and 2,3-difluorobenzyl bromide, was given. The exemplified compds. I were found to have IC50 values of < 10 μM against CXCR2 receptor binding.

IT 503271-37-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

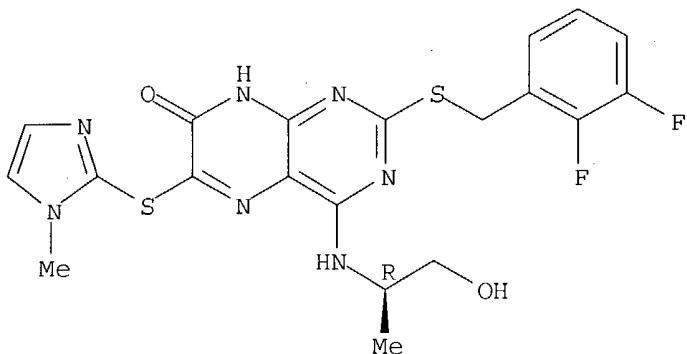
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(preparation of pteridinones as modulators of chemokine receptor activity)

RN 503271-37-2 CAPLUS

CN 7(1H)-Pteridinone, 2-[[[2,3-difluorophenyl)methyl]thio]-4-[[[(1R)-2-hydroxy-1-methylethyl]amino]-6-[(1-methyl-1H-imidazol-2-yl)thio]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT:

6

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1998:178695 CAPLUS

DOCUMENT NUMBER: 128:282818

TITLE: Heteroaromatic dithioacetals. Part 1. The preparation of unsymmetrical dithioacetals from heteroaromatic thiols

AUTHOR(S): Gauthier, Jacques Yves; Zajac, Nicolas; Mayhew, Darrin L.; Hughes, Gregory J.; Martins, Evelyn; Guay, Daniel; Young, Robert N.; Zamboni, Robert J.

CORPORATE SOURCE: Medicinal Chemistry Department, Merck Frosst Center Therapeutic Research, Pointe Claire-Dorval, QC, H9R 4P8, Can.

SOURCE: Synlett (1998), (3), 289-291
CODEN: SYNLES; ISSN: 0936-5214

PUBLISHER: Georg Thieme Verlag

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 128:282818

AB The preparation of unsym. dithioacetals derived from heteroarom. thiols and alkyl thiols is described.

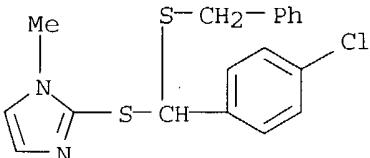
IT 205818-37-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of unsym. dithioacetals from heteroarom. thiols)

RN 205818-37-7 CAPLUS

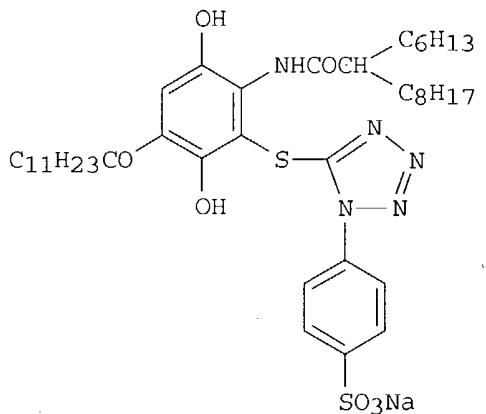
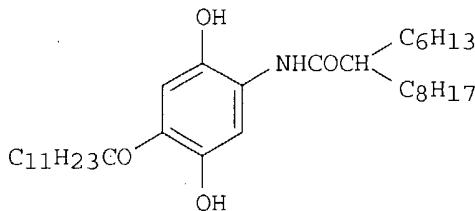
CN 1H-Imidazole, 2-[[[4-chlorophenyl][(phenylmethyl)thio]methyl]thio]-1-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1995:354728 CAPLUS
 DOCUMENT NUMBER: 122:174578
 TITLE: Heat development diffusion transfer-type color photosensitive materials
 INVENTOR(S): Taguchi, Toshiki
 PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 32 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06289557	A2	19941018	JP 1993-96499	19930401
PRIORITY APPLN. INFO.:			JP 1993-96499	19930401

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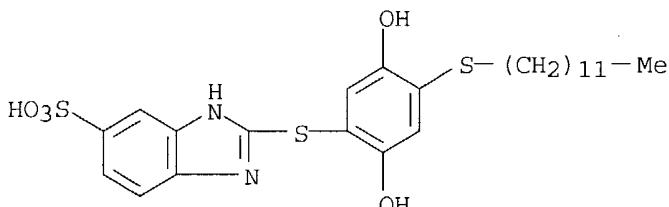
AB The title materials contain, on a support, a Ag halide, a binder, a non-diffusible dye-providing compound releasing a diffusible dye by reduction, a reducing agent, and ≥ 1 compound $(([\text{Red}]p - [\text{Link}]m - [\text{AF}]n))kXM$ ([Red] = reducing redox nucleus releasing [Link] $_m - [\text{AF}]_n$ by oxidation; [Link] = linking group releasing [AF] by further oxidation and/or hydrolysis after released from Red; [AF] = group able to restrain the reduction reaction of Ag halide; X = CO₂ or SO₂; M = H or metal atom with 1-3 valences, the group XM may be substituted on [Red], [Link], or [AF]; k, p, n ≥ 1 , m ≥ 0). A color photog. film using I for the reducing agent and II for the functional reducing agent gave high quality color images with good color-reproducibility and discrimination.

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RL: DEV (Device component use); USES (Uses)
(diffusion-transfer photothermog. copying material containing functional
reducing agent)

RN 137659-65-5 CAPLUS

CN 1H-Benzimidazole-5-sulfonic acid, 2-[[4-(dodecylthio)-2,5-
dihydroxyphenyl]thio]- (9CI) (CA INDEX NAME)



L4 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1992:224622 CAPLUS

DOCUMENT NUMBER: 116:224622

TITLE: Silver halide photographic material having redox compound emulsion layer

INVENTOR(S): Kato, Kazunobu; Hirano, Shigeo

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 25 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

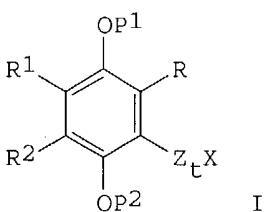
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03291645	A2	19911220	JP 1990-94550	19900410
PRIORITY APPLN. INFO.:			JP 1990-94550	19900410

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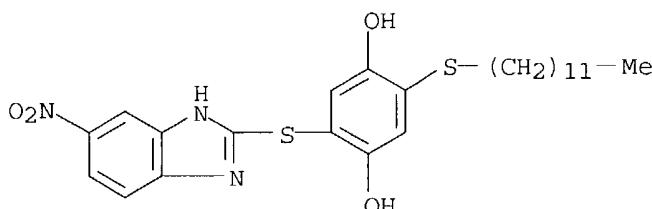
AB In the material consisting of a support coated with a 1st Ag halide emulsion layer containing a redox compound AZtX (A = oxidation-reduction center or its precursor exclusive of hydrazine; Z = timing group which eliminates by oxidation in development; X = development-preventing agent; t = 0, 1) and a 2nd emulsion layer with higher sensitivity than the 1st layer, the 2nd layer or an adjacent hydrophilic colloid layer contains a hydrazine derivative. The material may contain a redox compound I (R-R2 = H, group substitutable on the hydroquinone ring; P1, P2 = H, protecting group cleavable in development). The material showed good dot gradation.

IT 141187-72-6

RL: USES (Uses)

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(photog. material emulsion layer containing, for good dot gradation)
RN 141187-72-6 CAPLUS
CN 1,4-Benzenediol, 2-(dodecylthio)-5-[(5-nitro-1H-benzimidazol-2-yl)thio]-
(9CI) (CA INDEX NAME)

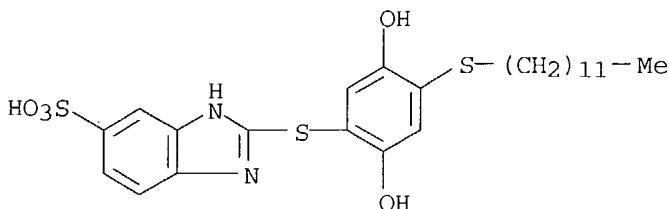


L4 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1991:691243 CAPLUS
DOCUMENT NUMBER: 115:291243
TITLE: Heat-developable color photographic material
INVENTOR(S): Koide, Tomoyuki
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 40 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03043735	A2	19910225	JP 1989-178544	19890711
PRIORITY APPLN. INFO.:			JP 1989-178544	19890711

AB The title material comprises a support having thereon photosensitive silver halide, a binder, an electron transporting agent (or its precursor), an electron donor (or its precursor), a dye-providing compound, a hydrazine derivative, and one or more light-insensitive layers containing at least one compound represented by A(Time)_tX (A = oxidation-reduction nucleus; (Time)_tX is to be released upon oxidation during development; Time = timing group linked to A by S, N, O, etc.; t = 0 or 1; X functions as a development inhibitor after being released from (Time)_tX]. The use of the title material gives excellent pos. images.

IT 137659-65-5
RL: USES (Uses)
(photog. light-insensitive emulsion containing)
RN 137659-65-5 CAPLUS
CN 1H-Benzimidazole-5-sulfonic acid, 2-[[4-(dodecylthio)-2,5-dihydroxyphenyl]thio]- (9CI) (CA INDEX NAME)



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L4 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1991:14802 CAPLUS
DOCUMENT NUMBER: 114:14802
TITLE: Heat-developable color photographic material
INVENTOR(S): Koide, Tomoyuki
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 36 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 02064634	A2	19900305	JP 1988-217272	19880831
JP 2579196	B2	19970205		

PRIORITY APPLN. INFO.: JP 1988-217272 19880831

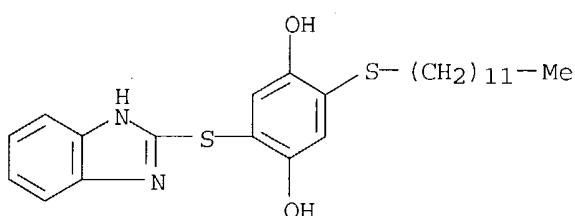
AB In a heat-developable photog. material comprising, on a support, photosensitive layers comprising Ag halides, a binder, an electron-donating compound, an electron-transfer agent, and a compound capable of releasing a diffusible dye upon reduction, a nonphotosensitive intermediate layer containing ≥ 1 compound having the formula A(time)_tX [A = a redox nucleus releasing the group (time)_tX on oxidation during development; time = a timing group bonded to A via S, N, O, or Se; t = 0, 1; X = a group capable of serving as a development inhibitor upon release from the (time)_tX group] is interposed between 2 photosensitive layers differing in color sensitivity.

IT 125708-86-3

RL: USES (Uses)
(development-inhibitor-releasing, heat-developable photog. films containing)

RN 125708-86-3 CAPLUS

CN 1,4-Benzenediol, 2-(1H-benzimidazol-2-ylthio)-5-(dodecylthio)- (9CI) (CA INDEX NAME)



L4 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1990:621211 CAPLUS
DOCUMENT NUMBER: 113:221211
TITLE: Direct positive-type color photographic material
INVENTOR(S): Hirano, Shigeo; Yamamoto, Mitsuru; Deguchi, Hisayasu
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 25 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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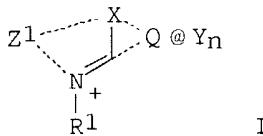
10/627, 423

JP 02108039
PRIORITY APPLN. INFO.:
GI

A2 19900419

JP 1988-260504
JP 1988-260504

19881018
19881018



AB In a direct pos. color photog. material utilizing ≥ 1 photog. emulsion layer containing unprefogged intermol. latent-image type Ag halide grain and a color coupler, the color coupler is itself nondiffusible and forms or releases a dye upon oxidative coupling with the color developing agent, and the photog. material contain a development inhibitor releasing compound, A-(time)t-X [A = redox nucleases, which allows the release of -(time)t-L only upon oxidation during color development, time = timing group which bonds to A via N, O, Se; t = 0, 1; x = development inhibitor] and ≥ 1 nucleating agents, (I) [Z1 = atom required to complete 5- or 6-membered ring; R1 = aliphatic group; X = double-bonded C, N; Q = atom required to complete non-aromatic ring; Y = counter ion; n = number required to achieve charge balance; the substituent on R1, Z1 = and(or) Q is alkynyl].

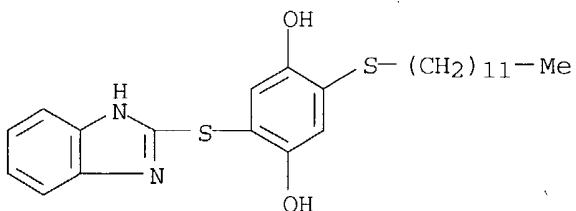
IT 125708-86-3

RL: USES (Uses)

(development inhibitor releasing compound, color photog. material using)

RN 125708-86-3 CAPLUS

CN 1,4-Benzenediol, 2-(1H-benzimidazol-2-ylthio)-5-(dodecylthio)- (9CI) (CA INDEX NAME)



L4 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1990:129021 CAPLUS

DOCUMENT NUMBER: 112:129021

TITLE: Direct positive color image development

INVENTOR(S): Deguchi, Hisayasu; Hirano, Shigeo

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 39 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01158440	A2	19890621	JP 1988-7046	19880118
PRIORITY APPLN. INFO.:			JP 1987-240692	19870928

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AB In developing a photog. material (with ≥ 1 unfogged internal latent image-type Ag halide emulsion layer and containing color image-forming coupler) in the presence of nucleating agent, the color image-forming coupler is nondiffusive and releases a nondiffusive dye upon oxidation coupling with color developer, and photog. material contains a surface latent image-type neg. Ag halide emulsion in a neg. Ag halide emulsion layer but not in the above internal latent image-type Ag halide emulsion layer, and neg. Ag halide emulsion layer and/or adjacent nonphotosensitive layer contains ≥ 1 compound selected from A(Time)_tX [A is oxidation reduction parent nucleus, and releases (Time)_tX by oxidation during photog. development; Time = timing group connected to S, N, O, or Se; t = 0, 1; X = development inhibitor], and a pH of the developing solution is ≤ 12.0 . Soft gradation can be prevented.

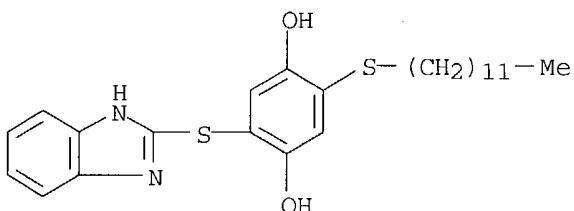
IT 125708-86-3

RL: USES (Uses)

(development inhibitor-releasing compound, direct pos. color development of photog. material containing)

RN 125708-86-3 CAPLUS

CN 1,4-Benzenediol, 2-(1H-benzimidazol-2-ylthio)-5-(dodecylthio)- (9CI) (CA INDEX NAME)



L4 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1988:483256 CAPLUS

DOCUMENT NUMBER: 109:83256

TITLE: Silver halide photographic material with improved color sharpness

INVENTOR(S): Deguchi, Hisayasu; Kojima, Tetsuo; Usui, Hideo; Hirano, Shigeo

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 47 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

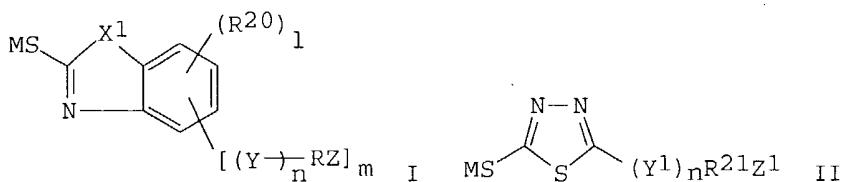
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63017445	A2	19880125	JP 1986-143756	19860619
JP 06019528	B4	19940316		
PRIORITY APPLN. INFO.:			JP 1986-143756	19860619

GI



AB A Ag halide photog. material contains (1) ≥ 1 compound having the formula A(time)_tX [A = oxidation-reduction center which releases (time)_tX on oxidation during photog. development; time = S, N, O, or timing group which is bonded to A; t = 0, 1; X = development inhibitor] and (2) ≥ 1 compound selected from I [R = straight or branched alkylene, straight or branched alkenylene, straight or branched aralkylene, arylene; Z = polar substituent; Y = S, O, NR1, CONR2, NR3CO, SO₂NR4, NR5SO₂, C(O)O, OC(O), CO, NR₆CONR₇, NR₈CSNR₉, NR₁₀CO₂; R₁-R₁₀ = H, (substituted) alkyl, aryl, alkenyl, aralkyl; X₁ = O, NR₁₉, S; R₁₉ = H, (substituted) alkyl, alkenyl; R₂₀ = H, substituent; M = H, alkali metal, ammonium, group to be cleavaged under alkali condition; n = 0, 1; m = 0-2; when X₁ = S, m \neq 0; l = 4-m] and II [R₂₁ = straight or branched alkylene, alkenylene, aralkylene, arylene; Z₁ = H, polar substituent; Y₁ = S, NR₁₁, NR₁₂CONR₁₃, NR₁₄CSNR₁₅, NR₁₆CO₂, NR₁₇CO, NR₁₈SO₂; R₁₁-R₁₈ = H, (substituted) alkyl, aryl, alkenyl, aralkyl; n = 0, 1]. The photog. material produces images with improved sharpness and reduced fog.

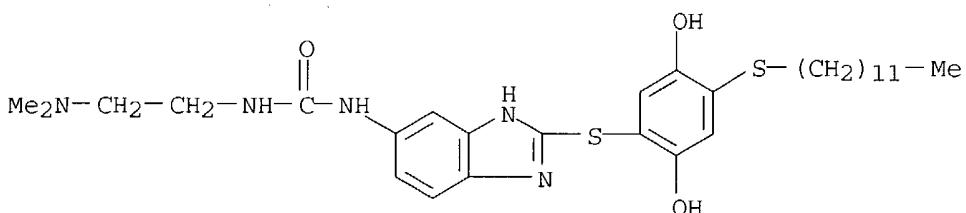
IT 115751-06-9

RL: USES (Uses)

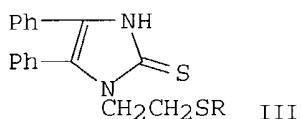
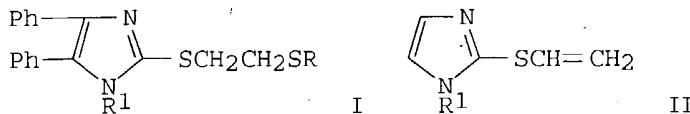
(photog. development inhibitor)

RN 115751-06-9 CAPLUS

CN Urea, N-[2-(dimethylamino)ethyl]-N'-[2-[[4-(dodecylthio)-2,5-dihydroxyphenyl]thio]-1H-benzimidazol-5-yl] - (9CI) (CA INDEX NAME)



L4 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1977:106475 CAPLUS
DOCUMENT NUMBER: 86:106475
TITLE: Radical addition of thiols to vinyl derivatives of
4,5-diphenylimidazole-2-thione
AUTHOR(S): Skvortsova, G. G.; Trzhtsinskaya, B. V.; Teterina, L.
F.; Voronov, V. K.
CORPORATE SOURCE: Irkutsk. Inst. Org. Khim., Irkutsk, USSR
SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1976), (11),
1554-6
CODEN: KGSSAQ; ISSN: 0132-6244
DOCUMENT TYPE: Journal
LANGUAGE: Russian
GI



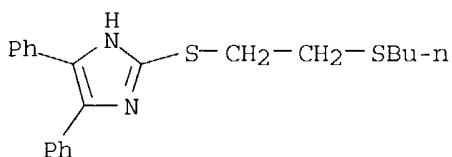
AB Imidazoles I ($R = Et, Bu, Ph, R1 = H; R = Et, Bu, R1 = CH:CH2$) were obtained in 57-85% yields by radical addition of RSR' to II. Addnl. obtained was 15% III ($R = Bu$).

IT **61996-88-1P 61997-03-3P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

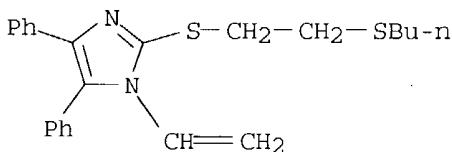
RN 61996-88-1 CAPLUS

CN 1H-Imidazole, 2-[2-[(butylthio)ethyl]thio]-4,5-diphenyl- (9CI) (CA INDEX NAME)



RN 61997-03-3 CAPLUS

CN 1H-Imidazole, 2-[2-[(butylthio)ethyl]thio]-1-ethenyl-4,5-diphenyl- (9CI)
(CA INDEX NAME)



L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1976:105488 CAPLUS

DOCUMENT NUMBER: 84:105488

TITLE: Behavior of N,S-divinyl-2-mercaptopbenzimidazole in a thiolation reaction

AUTHOR(S): Abramovà, N. D.; Skvortsova, G. G.; Trzhtsinskaya, B. V.; Sigalov, M. V.

CORPORATE SOURCE: Irkutsk. Inst. Org. Khim., Irkutsk, USSR

SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1975), (12), 1674-7

CODEN: KGSSAQ; ISSN: 0132-6244

DOCUMENT TYPE: Journal

LANGUAGE: Russian

OTHER SOURCE(S): CASREACT 84:105488

GI For diagram(s), see printed CA Issue.

AB Free radical addition of RSR' ($R = Et, Pr, Bu, Ph$) to the title compound I gave

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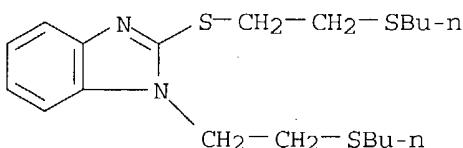
the sulfides II, whereas heating I with EtSH without a free radical catalyst gave 1-vinylbenzimidazole-2-thione (III). Free radical addition of EtSH to III gave 1-[2-(ethylthio)ethyl]benzimidazole-2-thione, whereas addition of EtSH to III in the presence of SO₂ gave 1-[1-(ethylthio)ethyl]benzimidazole-2-thione.

IT 58536-63-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 58536-63-3 CAPLUS

CN 1H-Benzimidazole, 1-[2-(butylthio)ethyl]-2-[[2-(butylthio)ethyl]thio] -
(9CI) (CA INDEX NAME)



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(FILE 'HOME' ENTERED AT 16:44:31 ON 04 NOV 2004)

FILE 'REGISTRY' ENTERED AT 16:44:45 ON 04 NOV 2004

L1 STRUCTURE UPLOADED

L2 0 S L1

L3 16 S L1 FULL

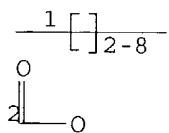
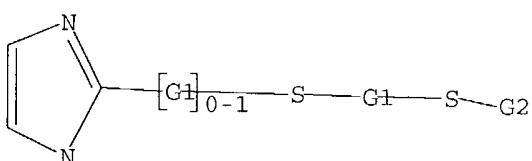
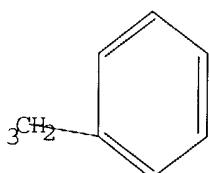
FILE 'CAPLUS' ENTERED AT 16:46:00 ON 04 NOV 2004

L4 12 S L3

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 Cy,Ak

G2 H,[@1],[@2],[@3]

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Structure attributes must be viewed using STN Express query preparation.

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=> d ibib abs hitstr

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:487501 CAPLUS
DOCUMENT NUMBER: 137:47605
TITLE: Amine-modified acidic resin catalysts for bisphenol production
INVENTOR(S): Spivack, James Lawrence.
PATENT ASSIGNEE(S): General Electric Company, USA
SOURCE: PCT Int. Appl., 27 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002050000	A1	20020627	WO 2001-US44178	20011119
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2002123656	A1	20020905	US 2000-741628	20001219
US 6486364	B2	20021126		
AU 2002026971	A5	20020701	AU 2002-26971	20011119
EP 1345877	A1	20030924	EP 2001-995923	20011119
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004516275	T2	20040603	JP 2002-551502	20011119
PRIORITY APPLN. INFO.:			US 2000-741628	A 20001219
			WO 2001-US44178	W 20011119

OTHER SOURCE(S): MARPAT 137:47605

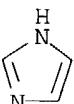
AB Bisphenols, e.g., bisphenol A, are produced from condensation of a hydroxy-containing aromatic compds. such as phenol with aldehyde or ketone such as acetone in the presence of a title catalyst and a thiol promoter at 25-95° with greater overall selectivity. Thus, crosslinked sulfonated polystyrene beads were treated with pyridine to give a title catalyst, which was used in the condensation of phenol and acetone using 20.5 mmol/L 3-mercaptopropionic acid as promoter to give bisphenol A with 92.64% p,p-selectivity.

IT 288-32-4D, **Imidazole**, reaction product with crosslinked sulfonated polystyrene

RL: CAT (Catalyst use); CPS (Chemical process); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses)
(amine-modified acidic resin catalysts for bisphenol production)

RN 288-32-4 CAPLUS

CN 1H-Imidazole (9CI) (CA INDEX NAME)



REFERENCE COUNT:

3

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS

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RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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(FILE 'HOME' ENTERED AT 16:53:54 ON 04 NOV 2004)

FILE 'REGISTRY' ENTERED AT 16:54:26 ON 04 NOV 2004
E IMIDAZOLE/CN

L1 1 S E3

FILE 'CPLUS' ENTERED AT 16:55:08 ON 04 NOV 2004

L2 14023 S L1
L3 52847 S IMIDAZOLE?
L4 53847 S L2 OR L3
L5 109 S BISPHENOLS/PREP
L6 1 S L4 AND L5

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(FILE 'HOME' ENTERED AT 16:53:54 ON 04 NOV 2004)

FILE 'REGISTRY' ENTERED AT 16:54:26 ON 04 NOV 2004
E IMIDAZOLE/CN

L1 1 S E3

FILE 'CPLUS' ENTERED AT 16:55:08 ON 04 NOV 2004

L2 14023 S L1
L3 52847 S IMIDAZOLE?
L4 53847 S L2 OR L3
L5 109 S BISPHENOLS/PREP
L6 1 S L4 AND L5
L7 66628 S BISPHENOL?
L8 1168 S L4 AND L7
L9 179 S POLY-SULFUR?
L10 0 S L8 AND L9

=> => d ibib abs hitstr 1-5

L11 ANSWER 1 OF 5 CPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:696040 CPLUS

DOCUMENT NUMBER: 137:218127

TITLE: Production of membranes from crosslinked polymers for
use in fuel cells

INVENTOR(S): Uensal, Oemer; Kiefer, Joachim

PATENT ASSIGNEE(S): Celanese Ventures G.m.b.H., Germany

SOURCE: PCT Int. Appl., 22 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002070592	A2	20020912	WO 2002-EP2215	20020301
WO 2002070592	A3	20021227		
W: BR, CA, CN, JP, KR, MX, US, ZA				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
DE 10110752	A1	20020919	DE 2001-10110752	20010307
EP 1373379	A2	20040102	EP 2002-732451	20020301

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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, FI, CY, TR

BR 2002007951 A 20040727 BR 2002-7951 20020301
US 2004118773 A1 20040624 US 2003-468988 20030925
DE 2001-10110752 A 20010307
WO 2002-EP2215 W 20020301

PRIORITY APPLN. INFO.:

AB The title membranes, with good fracture toughness, are prepared by casting solns. containing polymers bearing amino groups and bridging agents to form films, removing solvents, carrying out bridging, and doping the resulting films with a strong acids. A 15% solution of 150 g (0.4870 mol) polybenzimidazole was stirred with 10 mg KOH for 30 min at 60°, mixed with 5 mol% bisphenol A diglycidyl ether, stirred at 60° for 1 h, cast to a film, heated over 15-30 min from 30 to 200°, and the film was doped with 85% H₃PO₄ for ≥72 h to give a membrane with elastic modulus 5.3 MPa, tensile strength 3.2 MPa, elongation 99%, and fracture toughness 172 kJ/m².

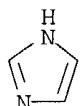
IT 288-32-4D, Imidazole, derivs., polymers

RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)

(production of membranes from bridged polymers for use in fuel cells)

RN 288-32-4 CAPLUS

CN 1H-Imidazole (9CI) (CA INDEX NAME)



L11 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:368494 CAPLUS

DOCUMENT NUMBER: 133:5955

TITLE: Powder coating compositions containing transfer efficiency-enhancing additives and their application method

INVENTOR(S): Jolley, Scott T.; Williams, Charles F.

PATENT ASSIGNEE(S): The Lubrizol Corporation, USA

SOURCE: PCT Int. Appl., 36 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000031191	A1	20000602	WO 1999-US25770	19991105
W: CA				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 6245839	B1	20010612	US 1998-199580	19981125
CA 2351495	AA	20000602	CA 1999-2351495	19991105
EP 1133535	A1	20010919	EP 1999-958745	19991105
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				

PRIORITY APPLN. INFO.: US 1998-199580 A 19981125
WO 1999-US25770 W 19991105

OTHER SOURCE(S): MARPAT 133:5955

AB The composition comprises (A) a film forming polymer, and (B) a transfer

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efficiency-enhancing additive containing a 5- or 6-membered ring heterocyclic compound having ≥ 2 heteroatoms, wherein one heteroatom is nitrogen, the second heteroatom is selected from nitrogen, oxygen, and sulfur, and ≥ 1 C1-50 hydrocarbyl substituent. Thus, 0.2% 1-(2-hydroxyethyl)-2-heptadecenylimidazoline was mixed with a extruded powder coating composition comprising carboxy-functional acrylic polymer 30, bisphenol A epoxy resin 30, acrylic flow modifier 1.0, benzoin 0.4, TiO₂ 32, and CaCO₃ 6.6 parts, showing transfer efficiency 58.09, compared to 49.2 for a composition without imidazoline.

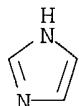
IT 288-32-4D, Imidazole, derivs.

RL: MOA (Modifier or additive use); USES (Uses)

(transfer efficiency-enhancing additives; powder coating compns. containing transfer efficiency-enhancing additives)

RN 288-32-4 CAPLUS

CN 1H-Imidazole (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1995:261446 CAPLUS

DOCUMENT NUMBER: 122:189850

TITLE: Epoxy resin compositions for photosemiconductor sealants

INVENTOR(S): Kosaka, Masahiko; Tsuchida, Satoru; Hirokawa, Kozo; Yasuzawa, Kohei

PATENT ASSIGNEE(S): Hitachi Chemical Co Ltd, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06256475	A2	19940913	JP 1993-47874	19930309
PRIORITY APPLN. INFO.:			JP 1993-47874	19930309

AB Title compns. with good humidity and thermal shock resistance and improved transparency contain (A) epoxy resins, (B) bisphenol novolak resins, (C) hardening accelerators, and (D) ≥ 1 compound selected from organic P compds., thioethers, and hindered phenols. Thus, a composition comprising R336 (bisphenol A epoxy resin) 75, ERL-4221 (alicyclic epoxy resin) 25, bisphenol A novolak (prepared from 900 g bisphenol A and 200 g 37% HCHO) 31.6, HI-M-O (organic P compound) 2, AO-80 (hindered phenol) 2, and Imidazole 2E4MZ (hardening accelerator) 1 part was transfer-molded and postcured to obtain test packages showing good transparency and 50% malfunction after 750-h pressure cooker test (121°, 85% relative humidity) and after 110 thermal cycles (-40°/125° for 30 min, resp.).

L11 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1992:85371 CAPLUS

DOCUMENT NUMBER: 116:85371

TITLE: Heat-resistant anchoring adhesives for electroless

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plating and their use in the manufacture of printed circuit boards by the additive process

INVENTOR(S): Enomoto, Akira; Asai, Motoo
PATENT ASSIGNEE(S): Ividen Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03229780	A2	19911011	JP 1990-23313	19900201
JP 3007648	B2	20000207		

PRIORITY APPLN. INFO.:

AB The adhesives comprise a matrix phase and dispersed particles of cured heat-resistant polymers, wherein the matrix is made from a polymer which becomes essentially acid-insol. after curing, and the particles incorporated are cured products which are soluble in acids for facilitating surface roughening in circuit board manufacture. Thus, a suspension of 200 g acid-soluble epoxy resin particles (size 3.9 μm) in 5 L acetone was mixed with 300 g of a suspension of 30 g epoxy resin particles (size 0.5 μm) in 1 L acetone to give particles having microparticles attached on their surface. The pseudoparticles, after removal of acetone and drying, had average size apprx. 4.3 μm , and were dispersed (50 parts) with phenol novolak epoxy resin 60, **bisphenol A**-type epoxy resin 40, and **imidazole** crosslinking catalyst 4 parts in Bu Carbitol to form a solution with viscosity 120 cP. Coating a polyimide-glass fiber composite substrate with the solution, drying, heating 5 h at 150°, sanding the adhesive layer formed, dipping in 50% H₂SO₄ at room temperature for 20 min, washing the roughened surface, activating with Pd catalyst, applying a photosensitive dry film on top, irradiating the film via a patterning mask with UV light, and developing with chlorothene gave a resist-patterned board ready for electroless plating with Cu conductor solution

L11 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1989:96580 CAPLUS
DOCUMENT NUMBER: 110:96580
TITLE: Epoxy resin compositions with good resistance to deterioration by **sulfur** hexafluoride for heavy electric parts
INVENTOR(S): Kushida, Takanori
PATENT ASSIGNEE(S): Matsushita Electric Works, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63183914	A2	19880729	JP 1987-15588	19870126
JP 2563101	B2	19961211		

PRIORITY APPLN. INFO.:

AB The title compns. with good mech. strength, useful for air break switches requiring high pressure resistance, contain epoxy resins and O-containing Al compds. A **bisphenol A** epoxy resin 30, a phenolic novolak 4, an **imidazole** hardener 1, Al₂O₃ 60, and a release agent and others 5 parts were kneaded and molded to show excellent resistance to SF₆ and flexural strength 13 kg/mm², compared with no resistance and 13 kg/mm²,

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resp. when SiO₂ was used instead of Al₂O₃.

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FILE 'REGISTRY' ENTERED AT 16:54:26 ON 04 NOV 2004
E IMIDAZOLE/CN

L1 1 S E3

FILE 'CAPLUS' ENTERED AT 16:55:08 ON 04 NOV 2004

L2 14023 S L1
L3 52847 S IMIDAZOLE?
L4 53847 S L2 OR L3
L5 109 S BISPHENOLS/PREP
L6 1 S L4 AND L5
L7 66628 S BISPHENOL?
L8 1168 S L4 AND L7
L9 179 S POLY-SULFUR?
L10 0 S L8 AND L9
L11 5 S L8 AND SULFUR?

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Day : Thursday
 Date: 11/4/2004
 Time: 15:32:57

PALM INTRANET

Inventor Name Search Result

Your Search was:

Last Name = WEBB

First Name = JIMMY

Application#	Patent#	Status	Date Filed	Title
60134692	Not Issued	159	05/18/1999	RESORCINOL PHthalate POLYMERS AND COPOLYMERS WITH GOOD MELT STABILITY
60128339	Not Issued	159	04/08/1999	HIGHLY WEATHEABLE ARTICLES WITH RESORCINOL POLYARYLATE OUTER LAYERS
60021750	Not Issued	159	07/15/1996	QUARTERNARY BISPHENOLATES, METHODS FOR THEIR PREPARATION, AND USES THEREOF
29040857	Not Issued	161	06/29/1995	SPRAY FENDER FOR AN AGRICULTURAL VEHICLE
10627445	Not Issued	092	07/25/2003	METHOD FOR PRODUCING BISPHENOL CATALYST AND BISPHENOLS
10627423	Not Issued	030	07/25/2003	METHOD FOR PRODUCING BISPHENOL CATALYST AND BISPHENOLS
10627394	Not Issued	041	07/25/2003	METHOD FOR PRODUCING BISPHENOL CATALYST AND BISPHENOLS
10626990	Not Issued	030	07/25/2003	METHOD FOR PRODUCING BISPHENOL CATALYST AND BISPHENOLS
10410693	Not Issued	061	04/11/2003	WEATHERABLE BLOCK COPOLYESTERCARBONATES, BLENDS CONTAININ THEM, AND METHOD
10409067	Not Issued	061	04/08/2003	WEATHERABLE MULTILAYER RESINOUS ARTICLE AND METHOD FOR THEIR PREPARTION
09954914	6534686	150	09/18/2001	METHOD FOR PRODUCING BISPHENOL CATALYST AND BISPHENOLS
09954909	6620939	150	09/18/2001	METHOD FOR PRODUCING BISPHENOL CATALYST AND BISPHENOLS

09916160	6538065	150	07/26/2001	METHOD FOR PREPARING COPOLYESTERCARBONATES AND ARTICLES THEREFROM
09741627	6414200	150	12/19/2000	SILYLMETHANETHIOLS AS PROMOTERS FOR BISPHENOL PRODUCTION
09251244	6440364	150	02/16/1999	METHOD OF DEGASSING ABSORBABLE SUTURE PRODUCTS
08758108	5663406	150	11/25/1996	FORMATION OF CARBONATE ESTERS AND ORTHOCARBONATES
08673540	Not Issued	161	07/01/1996	PROCESS FOR REMEDIATION OF A CONTAMINATE PARTICULATED MATERIAL
08673484	5779810	150	07/01/1996	METHOD TO REMOVE HALOGENATED HYDROCARBONS FROM PARTICULATE MATTER
08611609	5797995	150	03/08/1996	METHOD FOR THERMAL REMOVAL OF HALOGENATED ORGANIC COMPOUNDS FROM SOI
08523177	5688335	150	09/05/1995	CONTAMINANT REMOVAL FROM MATERIAL
08494040	Not Issued	166	06/26/1995	FORMATION OF CARBONATE ESTERS AND ORTHOCARBONATES
08407454	Not Issued	166	03/20/1995	METHOD FOR THERMAL REMOVAL OF HALOGENATED ORGANIC COMPOUNDS FROM SOI
08300900	Not Issued	168	09/06/1994	METHOD TO REMOVE HALOGENATED HYDROCARBONS FROM PARTICULATE MATTER
08300899	5520745	150	09/06/1994	REMEDIATION OF CONTAMINATED MATERIAL
08254628	5430232	250	06/06/1994	ENHANCED VOLATILIZATION OF POLYCHLORINATED BIPHENYL COMPOUNDS
08242768	Not Issued	168	05/16/1994	PROCESS FOR REMEDIATION OF A CONTAMINATE PARTICULATED MATERIAL
08055599	5391300	150	05/03/1993	METHOD FOR THE REMOVAL OF HALOGENATED ORGANIC COMPOUNDS FROM AN ENVIRONMENT
08046874	5334672	150	05/27/1993	AROMATIC POLYMER BLENDS AND METHOD
07985160	5296880	250	12/03/1992	BIFOCAL CONTACT LENS
07928397	Not Issued	161	08/12/1992	AROMATIC POLYMER BLENDS AND METHOD
07736547	Not Issued	161	07/26/1991	AROMATIC POLYMER BLENDS AND METHOD
07646902	5187243	150	01/28/1991	HIGH IMPACT, FLAME RETARDANT, TRANSPARENT BLENDS OF AROMATIC POLY-CARBONATE AND

				POLY(ARYLOXYSILOXANE)
07497155	5041514	150	03/21/1990	POLYMERIC REACTION PRODUCTS OF BIPHENOLS AND ORGANOSILICON MATERIALS AND METHOD FOR MAKING
07353713	Not Issued	161	05/18/1989	POLYMERIC REACTION PRODUCTS OF TETRAALKYLBIPHENOL AND ORGANOSILICON MATERIALS AND METHOD FOR MAKING
07344713	5026890	250	04/28/1989	METHOD AND INTERMEDIATES FOR PREPARATION OF BIS(AMINOALKYL) POLYDIORGANOSILOXANE
07196910	Not Issued	161	05/20/1988	METHOD AND INTERMEDIATES FOR PREPARATION OF BIS(AMINOALKYL) POLYDIORGANOSILOXANE
06768255	4631346	150	08/22/1985	SILYL CARBAMATES AND THEIR USE IN THE PREPARATION OF BIS(AMINOALKYL) DISILOXANE
06743836	4565885	150	06/12/1985	METHOD FOR PREPARING OLEFINIC SILAZANES
06707630	Not Issued	164	03/04/1985	SILYL CARBAMATES AND THEIR USE IN THE PREPARATION OF BIS(AMINOALKYL) DISILOXANE
06691293	4584393	150	01/14/1985	BIS(AMINOALKYL) DISILOXANES AND METHOD AND INTERMEDIATES FOR THEIR PREPARATION
06691292	4584388	150	01/14/1985	METHOD AND COMPOSITION FOR PREPARING AROMATIC POLYCARBOXYLIC ACIDS AND THEIR ANHYDRIDES FROM POLYCARBOXIMIDES
06505636	4578470	150	06/20/1983	BIS-IMIDES CONTAINING HETEROCYCLIC AROMATIC RINGS
06321644	4391996	250	11/16/1981	1,1-DICHLORO-2,2-BIS(HYDROXYPHENYL)ETHYLENE
06306859	Not Issued	161	09/29/1981	FLAME RETARDANT PHOSPHORUS/NITROGEN ADDITIVES FOR THERMOPLASTICS
06254815	4329292	150	04/16/1981	CONTINUOUS METHOD FOR MAKING AROMATIC BIS(ETHER PHTHALIC ACID) OR AROMATIC BIS(ETHER ANHYDRIDE)
06253446	4340545	150	04/13/1981	METHOD FOR MAKING AROMATIC BIS(ETHER ANHYDRIDES)
06251019	4318857	150	04/03/1981	METHOD FOR MAKING AROMATIC BIS(ETHER ANHYDRIDES)
06250994	4329496	150	04/03/1981	METHOD FOR MAKING AROMATIC BIS(ETHER PHTHALIC ACID) OR AROMATIC BIS(ETHER ANHYDRIDE)
06250804	4329291	150	04/03/1981	METHOD FOR MAKING AROMATIC BIS(ETHER ANHYDRIDE)S
06124914	4349479	150	02/26/1980	METHOD OF SALVAGING AROMATIC BISIMIDE VALUES

06097350	4273674	150	11/26/1979	THERMAL DETECTING PAINT COMPOSITIONS
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